

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1 – 15. Canceled.

16. (Previously presented) A viral vector comprising a coxsackievirus genome modified to encode an attenuated coxsackievirus, the genome further comprising at least one cloning site for insertion of at least one expressible heterologous nucleic acid, wherein the heterologous nucleic acid encodes a biologically active immunomodulatory protein that induces a shift from a Th1 to a Th2 immune response.

17. (Previously presented) The viral vector of claim 16, wherein the heterologous nucleic acid encodes IL-4.

18. (Previously presented) The viral vector of claim 16, comprising a coxsackievirus B genome.

19. (Previously presented) The viral vector of claim 18, wherein the coxsackievirus genome is a coxsackievirus B3 genome.

20. (Previously presented) The viral vector of claim 19, wherein the coxsackievirus genome is modified by altering a transcription regulatory region of the genome.

21. (Previously presented) The viral vector of claim 20, wherein the transcription regulatory region comprises a 5' untranslated region of the genome.

22. (Previously presented) The viral vector of claim 21, wherein the 5' untranslated region is replaced with a 5' untranslated region of another enterovirus genome selected from the group consisting of poliovirus and echovirus.

23. (Previously presented) The viral vector of claim 16, wherein the cloning site is positioned between a coding sequence for a capsid protein and a coding sequence for viral protease.

24. (Previously presented) The viral vector of claim 16, wherein the cloning site is positioned at the start of the genome's open reading frame, and is constructed such that the inserted expressible heterologous DNA comprises a translation start codon and a 3' sequence recognized by a viral protease.

25 - 29. Canceled.

30. (Previously presented) The viral vector of claim 19, wherein a uracil nucleotide at position 234 of the genome is replaced by a cytosine nucleotide or a guanine nucleotide.

31. (Previously presented) The viral vector of claim 19, wherein a guanine nucleotide at position 233 of the genome is replaced by a cytosine nucleotide and an adenine nucleotide at position 236 of the genome is replaced by a uracil nucleotide.